

FIG. 1.

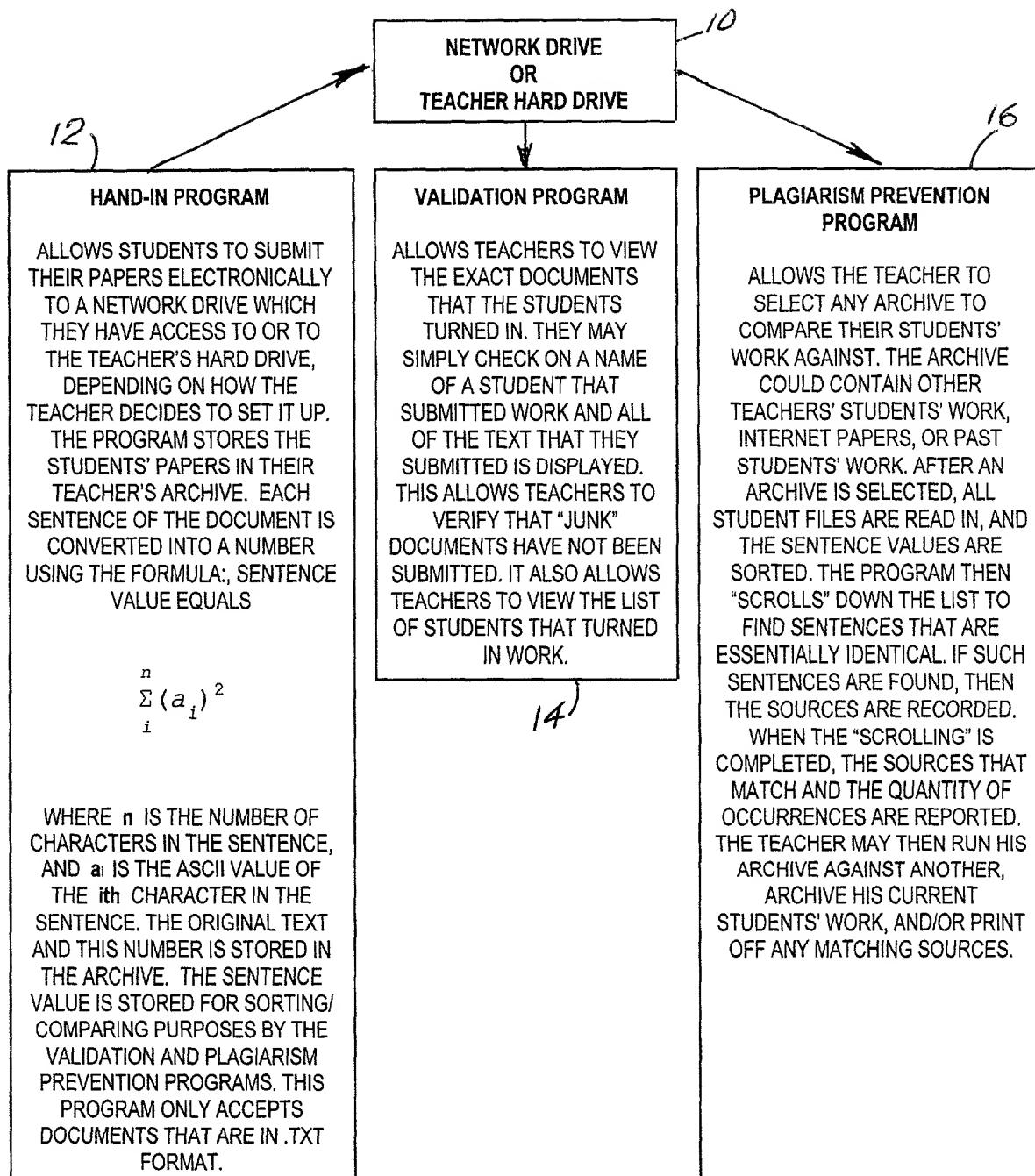


FIG. 2.

HAND-IN PROGRAM¹²

- STUDENT INPUTS PASSWORD AND TEACHER ID ²²
- VERIFY PASSWORD AND ID ²⁴
- SET CURRENT DIRECTORY BASED ON TEACHER ID ²⁶
- ALLOW STUDENT TO SELECT FILE TO HAND IN ²⁸
- READ IN STUDENT FILE ³⁰
- STORE EACH SENTENCE OF STUDENT FILE IN AN ARRAY OF STRING VARIABLES ³²
- TRANSLATE EACH SENTENCE INTO A NUMERICAL VALUE AS FOLLOWS: ³⁴
 - SET THE NUMERICAL VALUE OF THE SENTENCE TO ZERO ³⁶
 - GET THE ASCII VALUE OF THE CURRENT CHARACTER AND SQUARE IT ³⁸
 - ADD THE SQUARED VALUE TO THE NUMERICAL VALUE BEING ACCUMULATED FOR THE SENTENCE ⁴⁰
 - REPEAT THE TWO IMMEDIATELY PRECEDING SUBSTEPS THROUGH THE END OF THE SENTENCE ⁴²
- CREATE A FILE FOR THE STUDENT IN THE TEACHER'S ARCHIVE BASED ON THE TEACHER ID ⁴⁴
 - WRITE THE ORIGINAL SENTENCE ON THE NEXT AVAILABLE LINE OF THE FILE ⁴⁶
 - WRITE THE NUMERICAL VALUE OF THE SENTENCE ON THE NEXT AVAILABLE LINE OF THE FILE ⁴⁸
- REPEAT THE TWO IMMEDIATELY PRECEDING SUBSTEPS UNTIL ALL SENTENCES AND NUMERICAL VALUES HAVE BEEN WRITTEN TO THE FILE ⁴⁹

VALIDATION PROGRAM¹⁴

- TEACHER INPUTS TEACHER ID ⁵⁰
- SET CURRENT DIRECTORY BASED ON TEACHER ID ⁵²
- READ IN ALL FILES FROM CURRENT DIRECTORY ⁵⁴
- DISPLAY A LIST OF ALL STUDENTS THAT TURNED IN WORK ⁵⁶
- SELECT A STUDENT'S NAME TO VIEW THE DOCUMENT THAT HE TURNED IN ⁵⁸
- DISPLAY THE SELECTED STUDENT'S DOCUMENT IN A RICH TEXT FORMAT BOX ⁶⁰

PLAGIARISM PREVENTION PROGRAM¹⁶

- TEACHER INPUTS TEACHER ID ⁶²
- SET CURRENT DIRECTORY BASED ON TEACHER ID ⁶⁴
- TEACHER SELECTS EITHER OTHER ARCHIVES, OR DOCUMENTS IN THE CURRENT DIRECTORY TURNED IN BY OTHER STUDENTS, FOR COMPARISON ⁶⁶
- READ IN EACH DOCUMENT FROM THE SELECTED ARCHIVES OR DIRECTORY ⁶⁸
 - ONLY THE NUMERICAL VALUES OF THE SENTENCES ARE READ IN AND STORED AT THIS TIME ⁷⁰
- NUMERICAL VALUES OF ALL SENTENCES ARE SORTED USING A COMB-TYPE SORT ⁷²
- CHECK FOR ESSENTIALLY IDENTICAL SENTENCES BY SCROLLING THROUGH THE SORTED LIST ⁷⁴
 - COMPARE THE CURRENT VALUE WITH THE NEXT VALUE ⁷⁶
 - IF ESSENTIALLY THE SAME VALUE, RECORD THAT TWO SENTENCES MATCH, CHECK THE NEXT VALUE ⁷⁸
 - IF NOT ESSENTIALLY THE SAME VALUE, NEXT ELEMENT ON THE LIST BECOMES THE CURRENT VALUE ⁸⁰
 - REPEAT THE THREE IMMEDIATELY PRECEDING SUBSTEPS UNTIL ENTIRE LIST HAS BEEN CHECKED ⁸²
- REPORT THE SOURCES THAT HAD MATCHING SENTENCES ALONG WITH THE NUMBER OF OCCURRENCES ⁸⁴
- ALLOW TEACHER TO SELECT ANOTHER ARCHIVE TO COMPARE SENTENCE VALUES WITH ⁸⁶
- ALLOW TEACHER TO ARCHIVE AND NAME CURRENT DIRECTORY FOR FUTURE USE ⁸⁸